



Edward Kolodziej

Senior Project Manager – Environmental Remediation

GE

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King of Prussia, PA 19426

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January 9, 2015

Todd Gmitro
Corrective Action Project Manager
Remediation and Reuse Branch - U.S. EPA Region 5
77 W. Jackson Blvd. (LU-9J)
Chicago, IL 60604

Re: General Electric Company, Evendale, Ohio
OHD 000 817 312
Progress Report

Dear Mr. Gmitro:

Please find attached the Fourth Quarter 2014 Progress Report. If you have any questions, please contact me at (610) 992-7981.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manages the system or those persons directly responsible for gathering the information, the information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

A handwritten signature in blue ink that reads 'Ed Kolodziej'.

Ed Kolodziej
Senior Project Manager – Environmental Remediation

cc: Chief Mike Hauck, Evendale Fire Department
Tim Hull, OEPA
Ralph Mertz, BUSTR (Incident Number: 31001060)
John Wolfe, United States Air Force
Kent Scott-Smith, United States Air Force
Joanne Reinhold, GE

Description of Work Completed in Fourth Quarter 2014:

- Performed continuous pumping from extraction wells in each water-bearing unit. The average pumping rates for the fourth quarter 2014 were:

<u>Well ID</u>	<u>Unit</u>	<u>4Q 2014 Average Pumping Rate (gpm)</u>
EW-2P	Perched	5 (44 gpm since pump repair)
EW-4P	Perched	40
EW-5P	Perched	24
EW-6P	Perched	47
EW-7S	USG	6
EW-3D	LSG	48
EW-8D	LSG	<u>48</u>
		Total Ave. = 218 gpm

- Continued cyclical pumping at EW-7S due to low yield. The average pumping rate for EW-7S over the quarter was 6 gpm. GE continues to monitor pumping at the current rate and evaluate the potential benefits of an alternate pumping approach, as outlined in the Corrective Measures Study (CMS) Work Plan.
- Replaced pump motor and variable frequency drive (VFD) controller and restarted extraction well EW-2P on December 22, 2014. Since repair, EW-2P has operated at an average pumping rate of approximately 45 gpm.
- Continued progress monitoring of aquifer conditions in the three water-bearing units in accordance with the Performance Monitoring Plan (PMP). Submitted the 3rd quarter groundwater sampling report for 2014 to USEPA on December 18, 2014.
- Conducted IRM groundwater level monitoring and transducer download on October 7, 2014 to complete IRM hydraulic monitoring for 3rd quarter 2014.
- Conducted the 4th quarter 2014 IRM groundwater sampling during the week of December 8th, 2014.
- Continued operating the IRM groundwater treatment plant, including scheduled and unscheduled maintenance activities, permit compliance sampling and analysis, and reporting of key operational parameters. Operational run-time for the treatment plant was 96% for the quarter.
- Re-scheduled the 4th quarter soil vapor sampling from the eleven shallow sampling locations until the first week of January 2015.
- Submitted supplemental isoconcentration maps and technical memorandum to USEPA on December 4, 2015 to further support decision regarding Environmental Indicator CA 750 (Groundwater Migration Under Control).
- Decommissioned monitoring wells AF-23P and AF-23S and converted wells AF-15S/D to flush-mount protective covers on December 11-12, 2014. Well abandonment records are attached. Per correspondence with USEPA on December 11, 2014, GE will identify an optimal location for replacement wells following completion of construction activities in the area.
- Continued planning and scheduling to decommission and remove the former IRM systems and abandon the former recovery wells on the northern and southern sides of the GE property in the

1st quarter of 2015, depending on weather and construction activities. GE will notify USEPA via email prior to removal/well abandonment.

- Received letter from BUSTR on December 3, 2014 requesting additional information associated with the Tier 1 investigation Report dated August 21, 2014 associated with the in-place closure of an underground storage tank (UST). A copy of the BUSTR letter is attached.
- Received approval of the CMS Work Plan from USEPA on December 19, 2014. As requested by USEPA, the new CMS schedule and key milestones for execution and submittal of the CMS Report to USEPA are as follows:

Milestone	Assumed Duration	Projected Date
USEPA Approval of the CMS Work Plan		December 2014
Data Collection and Pilot Testing	6 months	January 2015 to July 2015
Prepare and Submit Soil Mgt Plan	3 months	January 2015 to April 2015
Prepare and Submit Soil Vapor Interim Report	3 months	January 2015 to April 2015
Prepare and Submit Updated Performance Monitoring Results	3 months	January 2015 to April 2015
Prepare and Submit Groundwater CMOs Interim Report	6 months	January 2015 to July 2015
Prepare and Submit Institutional Controls/Land Use Controls Interim Report	6 months	January 2015 to July 2015
Submit CMS Draft Report	6 months	January 2016
USEPA Review	2 months	January 2016 to March 2016 (assumed)
Submit Final CMS Report	2 months	May 2016

Summary of All Findings:

- None

Contacts with the Public:

- None

Problems or Potential Problems Encountered:

- None

Actions Taken to Rectify Problems:

- None

Changes in Personnel During Reporting Period:

- None

Projected Work for First Quarter 2015:

- Continue pumping in the three aquifer zones (Perched, USG and LSG) and progress monitoring of aquifer conditions as outlined in the PMP. Conduct IRM water level monitoring and transducer download in early January 2015.
- Begin preparation of the 4th quarter/annual IRM groundwater monitoring report.
- Conduct 1st quarter IRM groundwater monitoring in late March 2015.
- Implement AFP 36 system decommissioning and recovery well abandonment.
- Conduct recovery well abandonment for 3 former IRM system wells (Bldg 800 and North End)
- Continue operating the IRM groundwater treatment plant, including scheduled maintenance activities, permit compliance sampling and analysis, and reporting of key operational parameters.
- Collect shallow soil vapor samples from the eleven sampling locations in January 2015 as part of the 4th quarter vapor sampling event.
- Coordinate and conduct a site visit with USEPA.
- Initiate CMS activities per the approved CMS Work Plan and the revised schedule presented above.

Copies of Daily Reports and Laboratory/Monitoring Data:

Copies of well abandonment logs for monitoring wells AF-23P and AF-23S are attached.

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

307783

LOCATIONCounty HAMILTON Township SYCAMORE Section No. _____ Lot No. _____Owner GENERAL ELECTRICAddress of Well Location 1 NEUMAN WAYCity EVENDALE Zip Code 45215Well Location Description (120 Characters) CORRECTION TO #307570 TO CORRECT VOLUME OF GROUT USED TO SEAL WELL

Location of Well in either:
☒ State Plane
OR
☐ Latitude/Longitude

☒ N ☐ S X 457003.17 +/- _____ ft. Y 1417599.16 +/- _____ ft.

☐ Latitude _____ ☐ Longitude _____

Elevation of Well +/- _____ ft. Datum Plane: ☐ NAD27 ☒ NAD83Source of Coordinates: ☐ GPS ☐ Survey ☒ Other GLOBAL POSITIONING SYSTEMSource of Elevation: ☐ GPS ☐ Survey ☐ Other _____**WELL IDENTIFICATION** ODNR Well Log Number _____ Project Well ID AP-23P**MEASURED CONSTRUCTION DETAILS**Date of measurements 12/12/2014Depth of Well 35 ft. Static Water Level 18.8 ft.

Borehole Depth _____ ft. Borehole Diameter _____ in.

Casing Diameter 2 in. Casing Length 25 ft. Casing Type PVC**SEALING PROCEDURE**

Placement:

Sealing Material

Volume/Weight Used
Units Required

Placement Method

From <u>0</u> ft. To <u>35</u> ft.	<u>Bentonite/polymer slurry</u>	<u>90</u> GAL	<u>Pumped w/ tremie pipe</u>
From _____ ft. To _____ ft.	_____	_____	_____
From _____ ft. To _____ ft.	_____	_____	_____
From _____ ft. To _____ ft.	_____	_____	_____

Condition of Casing _____ Was Casing Removed? ☒ Yes or ☐ No
(check one)If casing **Not Removed**, was it Perforated? ☐ Yes or ☒ No
(check one) Perforations: From _____ ft. To _____ ft.Date Sealing Performed 12/12/2014Comments/Reason for Sealing NO LONGER NEEDED - WELL WAS OVER DRILLED TO 8.5" OPENING, CASING PULLED AND WELL GROUTED TO SEAL**CONTRACTOR**Name ENVIROCORE, LIMITED ODH Registration # 003259Address 8250 ESTATES PKCity/State/Zip PLAIN CITY, OH 43064e-Signature JOE FLECK Filed electronically on 1/9/2015

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.

WATER WELL SEALING REPORT e-FORM
OHIO DEPARTMENT OF NATURAL RESOURCES
Division of Soil and Water Resources
2045 Morse Road, Bldg B
Columbus, OH 43229-6693
Voice: (614) 265-6740 Fax: (614) 265-6767

307782

LOCATIONCounty HAMILTON Township SYCAMORE Section No. _____ Lot No. _____Owner GENERAL ELECTRICAddress of Well Location 14 NEUMAN WAYCity EVENDALE Zip Code 45215Well Location Description (120 Characters) CORRECTION TO REPORT #307569 TO CORRECT VOLUME OF GROUT USED TO SEAL WELL

Location of Well in either:
☒ State Plane
OR
☐ Latitude/Longitude

☒ N ☐ S X 457002.25 +/- _____ ft. Y 1417606.98 +/- _____ ft.

 Latitude _____ Longitude _____

Elevation of Well +/- _____ ft. Datum Plane: ☐ NAD27 ☒ NAD83Source of Coordinates: ☐ GPS ☐ Survey ☒ Other GLOBAL POSITIONING SYSTEMSource of Elevation: ☐ GPS ☐ Survey ☐ Other _____**WELL IDENTIFICATION** ODNR Well Log Number _____ Project Well ID AP-23S**MEASURED CONSTRUCTION DETAILS**Date of measurements 12/10/2014Depth of Well 60 ft. Static Water Level 30 ft.

Borehole Depth _____ ft. Borehole Diameter _____ in.

Casing Diameter 2 in. Casing Length 50 ft. Casing Type PVC**SEALING PROCEDURE**

Placement:	Sealing Material	Volume/Weight Used Units Required	Placement Method
From <u>0</u> ft. To <u>60</u> ft.	<u>Bentonite/polymer slurry</u>	<u>140</u> GAL	<u>Pumped w/ tremie pipe</u>
From _____ ft. To _____ ft.	_____	_____	_____
From _____ ft. To _____ ft.	_____	_____	_____
From _____ ft. To _____ ft.	_____	_____	_____

Condition of Casing _____ Was Casing Removed? ☐ Yes or ☒ No (check one)If casing **Not Removed**, was it Perforated? ☒ Yes or ☐ No (check one) Perforations: From 0 ft. To 20 ft.Date Sealing Performed 12/12/2014Comments/Reason for Sealing NO LONGER NEEDED - PVC CASING BROKE AT 20' BGS - WELL WAS OVER DRILLED TO 8.5" OPENING, CASING PULLED AND WELL GROUTED TO SEAL**CONTRACTOR**Name ENVIROCORE, LIMITED ODH Registration # 003259Address 8250 ESTATES PKCity/State/Zip PLAIN CITY, OH 43064e-Signature JOE FLECK Filed electronically on 1/9/2015

I hereby certify the information given is accurate and correct to the best of my knowledge.

Completion of this form is required by section 1521.05, Ohio Revised Code - file within 30 days after completion of sealing.
Distribute additional copies to: Customer, Driller and Local Health Department.



Department of Commerce

Division of State Fire Marshal
John R. Kasich, Governor
Andre T. Porter, Director

December 03, 2014

JOANNE REINHOLD
GE AVIATION
1 NEUMANN WAY MD N123
CINCINNATI, OHIO 45215

SITE: GE AVIATION
1 NEUMANN WAY
CINCINNATI OH
HAMILTON COUNTY
RELEASE #31001060-N00007

RE: ADDITIONAL INFORMATION REQUESTED

Dear Ms. Reinhold:

The Bureau of Underground Storage Tank Regulations (BUSTR) has reviewed your report titled "Tier 1 Investigation" dated August 21, 2014. Based on our review, BUSTR requests the following:

1. Groundwater is considered drinking water since the UST site is located within a BUSTR defined sensitive area and ODNR wells are located within 1500 feet. Therefore, soil leaching to drinking water and groundwater ingestion pathways need to be evaluated. Also, residential direct contact needs to be evaluated.
2. Chemicals of concern in soil were detected that do not have action levels listed in BUSTR's 2012 Technical Guidance Manual (TGM). Action levels for these COCs need to be derived from the BUSTR Spreadsheets. If these COCs are not listed in the BUSTR Spreadsheets, action levels must be developed based on methodologies and assumptions used to determine the action levels set forth in the tables found in paragraph (J)(3) of rule 1301:7-9-13. Please refer to page 20 and 21 of BUSTR's TGM.
3. COCs in soil need defined to delineation levels north, east and west of T1 SB-2 according to OAC 1301:7-9-13(I).
4. Where COC concentrations are less than the reporting limit, indicate the reporting limit (i.e. <0.005). "J" values are not to be reported.

Please be advised that the transfer of the property will not extinguish your liability to perform the required corrective actions. Publications that may help you to understand the requirements for compliance with BUSTR's rules and regulations may be found on the Internet at <http://www.com.ohio.gov/fire/bustMain.aspx> or by calling our office. Please submit this information to BUSTR on or before March 03, 2015. Thank you for your cooperation. If you have any questions, please contact me at (614) 752-7097.

Sincerely,

Ralph V. Mertz, III
Environmental Specialist

xc: Site File
Anthony Finch, O'Brian (email)